



Certificate Retrieval

Automatic certificate retrieval

- S/MIME certificates on iOS & Android
- managed & unmanaged devices
- transparent to the user
- support for native apps
- enable mobile end-to-end encryption



S/MIME certificates for mobile devices

Mobile end-to-end encryption

Mobile S/MIME

Digital certificates can be used on mobile devices for authentication, encryption and digital signatures. Native mail apps on iOS and Android devices support S/MIME for digital signing and end-to-end encryption of e-mails.

End-to-end encryption

In order to encrypt a user needs the S/MIME certificates of all recipients of his e-mail. Companies publish the encryption certificates of the employees in a certificate directory, which is accessible via LDAP. The Secardeo certBox is used for global retrieval of S/MIME certificates via LDAP. However, standard

mail apps on iOS and Android do not support LDAP. The connected e-mail server then only performs the search in the local directory, usually Active Directory, and returns certificates found there to the mobile device. This limits the certificate search to the internal colleagues within the company.

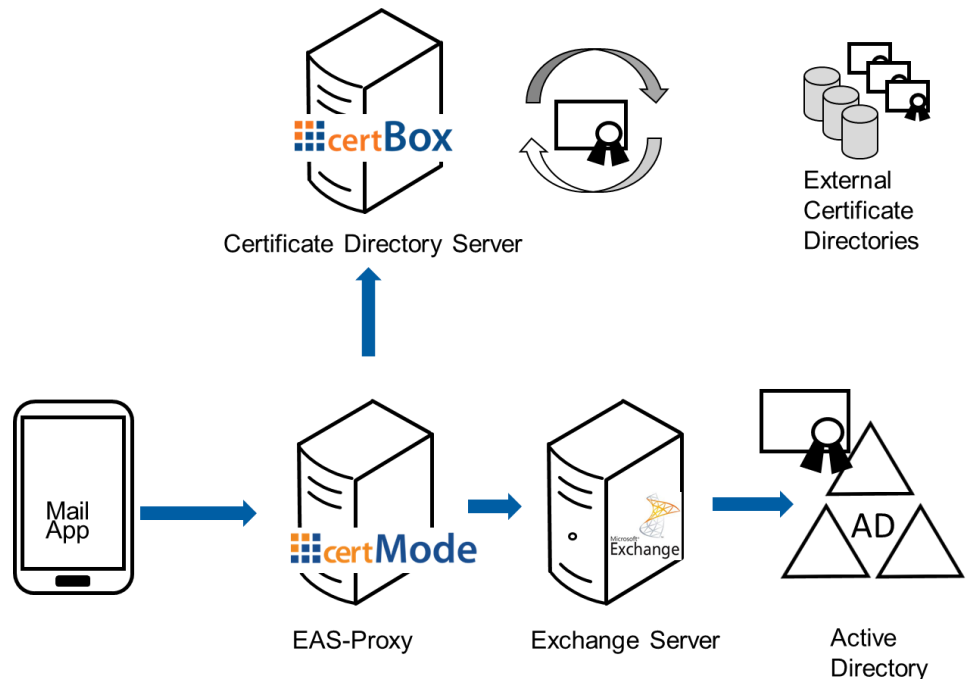
Global certificate retrieval

The solution for this problem is provided by certMode which acts as a proxy between the mobile device and the e-mail server, see figure below (patent issued under DE 10 2013 016 466). The proxy routes the search requests to

both the e-mail server (e.g. Exchange) and the Secardeo certBox or another LDAP server. The search response then contains S/MIME certificates of both the local recipients and the global recipients. This allows the user of the mobile device to encrypt transparently when e-mailing to any recipient.

Integration

The certMode EAS proxy integrates with your MS Exchange or other e-mail servers. It provides a connection to the Secardeo certBox or another LDAP server.

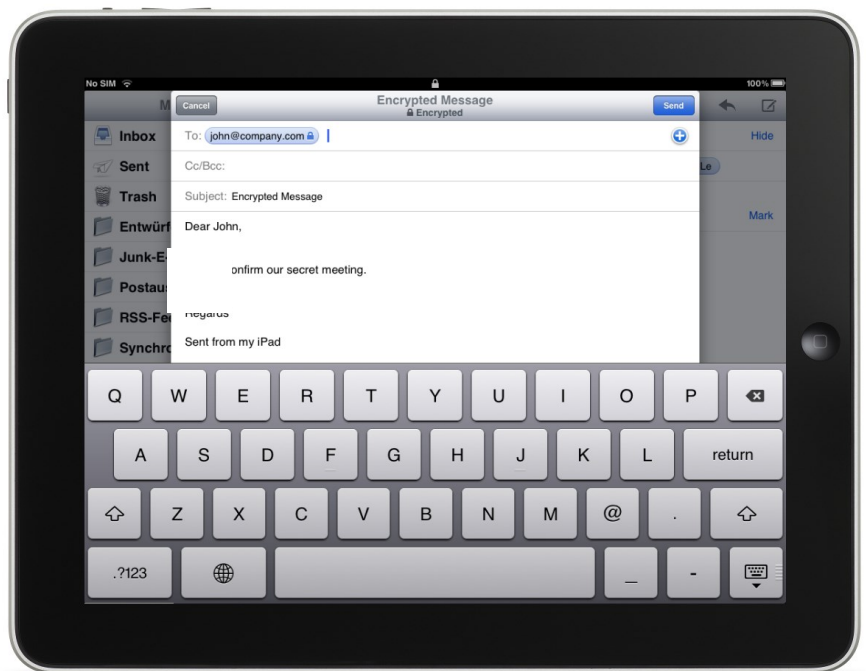
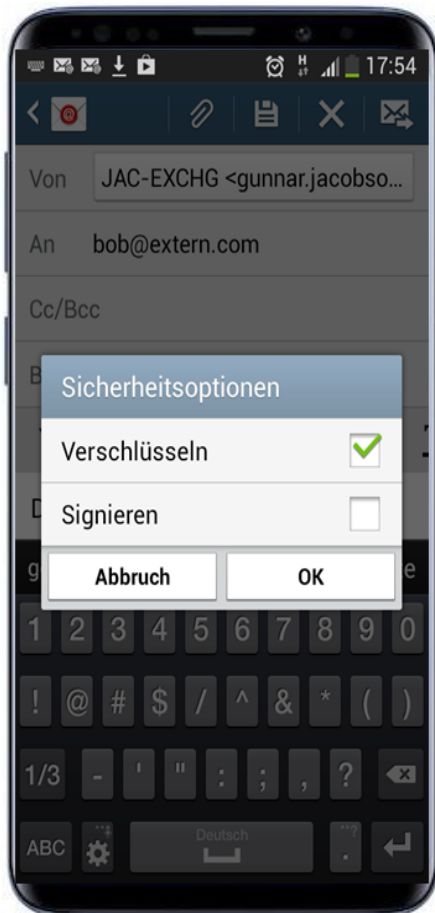


Secardeo GmbH
 Hohenadlstr. 4
 D-85737 Ismaning
 Tel. +49 89 / 18 93 58 90
 Fax +49 89 / 18 93 58 99
 info@secardeo.com
 www.secardeo.com

certMode is a proxy service for retrieving S/MIME certificates from AD and global directories. This enables transparent end-to-end encryption on mobile devices. certMode is delivered as a virtual machine.

certMode provides the following features:

- supplies native e-mail apps on iOS and Androids with recipient certificates from global directories
- transforms native certificate retrieval requests into LDAP search requests
- No additional software required on mobile devices
- returns all encryption certificates found in AD and in Internet directories to the device



Virtual Appliance:

VMware Virtual Hardware 10
Hyper-V Generation 1 (VHD)

Network: Single or dual network
interface (2x Bridged)
HDD: 1 x 40 GB

Supported mobile apps:

- iOS 7 mail app and newer
- Samsung Sx mail app

This product includes software developed by the OpenSSL
Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

Supported Standards:

- Exchange ActiveSync v14.1 or higher
- LDAPv3 RFCs 4510 - 4512
- X.509 Certificate and CRL Profile RFC 5280

This product includes cryptographic software written by
Eric Young (eay@cryptsoft.com)

Supported Exchange servers:

- MS Exchange 2013 or newer

Supported LDAP servers:

- Secardeo certBox v3, v4

Further on request.